



U.S. Fish & Wildlife Service

Aquatic Invasive Species Program

Pacific Southwest Region

Aquatic Invasive Species and Non-Native Invasive Species Programs

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Outline of the Presentation

- Brief overview of the AIS and NIS Programs.
- Goals of the AIS and NIS Programs.
- What we do and how we do it.
- Available resources and services.
- Who to contact for additional information and assistance.





Aquatic Invasive Species Program

Two programs... to prevent, manage, and control aquatic and non-native invasive species

Aquatic Invasive Species (AIS) Program

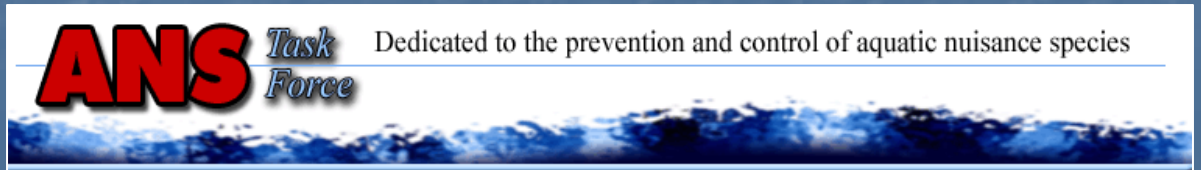
- USFWS program within Fisheries Program (Hatcheries, Fisheries)
- Supports National Invasive Species Act (NISA 1996)
- Focus is on collaborations within CA, NV and Klamath Basin; among Western states and nation wide (ANS Task Force)

CalFed Bay Delta Non-native Invasive Species (NIS) Program

- Cooperative Program State of California and Federal Agencies
- Supports Ecosystem Restoration Program (ERP)
- Focus is on collaborations with agencies involved with CalFed and NIS issues



Dedicated to the prevention and control of aquatic nuisance species





Goals of the AIS and NIS Programs

- Preventing new introductions of undesirable invasive species.
- Limiting the spread or eliminating populations of undesirable invasive species.
- Reducing the harmful ecological, economical, social and public health impacts resulting from infestation of undesirable invasive species.





What we do and how we do it...

Provide technical, programmatic and funding support to our partners through...

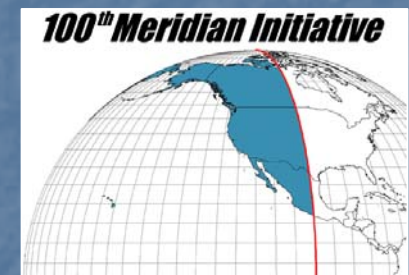
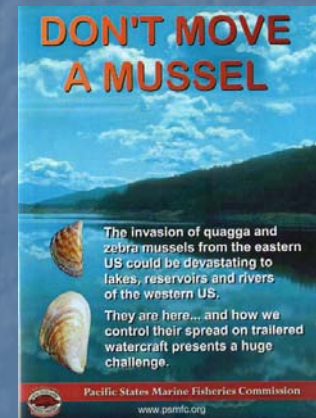
- Education and outreach
- Training programs
- Early detection and monitoring
- Rapid response and eradication
- Management and control
- Research





Education and Outreach

- Troubled Waters – AIS Awareness
- Stop Aquatic Hitchhikers
- Habitattitude
- 100th Meridian
- Don't Move a Mussel





Training Programs

- Early Detection and Monitoring for Quagga/zebra Mussels
- Watercraft Inspection and Decontamination
- Hazard Analysis and Critical Control Point (HACCP) Planning



HAZARD ANALYSIS & CRITICAL CONTROL POINT PLANNING FOR NATURAL RESOURCE MANAGEMENT WWW.HACCP-NRM.ORG

Planning is Everything!
Managing Natural Resource Pathways

HACCP





Early Detection and Monitoring

- Quagga and zebra mussels (*Dreissenid*)
- New Zealand mudsnail (*Potamopyrgus antipodarum*)
- Chinese mitten crab (*Eriocheir sinensis*)
- Southern watersnake (*Nerodia fasciata*)





Rapid Response

- Quagga and zebra mussels (*Dreissenid*)
- Southern watersnake (*Nerodia fasciata*)
- *Undaria pinnatifida*





Management and Control

- NMP – Chinese mitten crab (*Eriocheir sinensis*)
- NMP – *Caulerpa taxifolia*
- Southern watersnake (*Nerodia fasciata*)
- *Undaria pinnatifida*





Research

- Quagga and zebra mussels (*Dreissenid*)
- New Zealand mudsnail (*Potamopyrgus antipodarum*)
- Chinese mitten crab (*Eriocheir sinensis*)
- AIS decontamination protocols
- Environmental or E-DNA





Contact Information

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<http://www.fws.gov/stockton/AIS/index.html>



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Questions...

